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As per available reports about 78 journals, 198 Conferences, 31 workshops are presently dedicated exclusively to Microstrip Antenna and about 1,700 articles are being published on the current trends in Microstrip Antenna. In terms of research annually, USA, India, Japan, Brazil and Canada are some of the leading countries where maximum studies related to Microstrip Antenna are being carried out.

Microstrip Antenna - Open Access Journals

A novel and simple expression to accurately calculate the resonant frequency of annular-ring microstrip antennas. International Journal of Microwave and Wireless Technologies, Vol. 7, Issue. 6, p. 727.

Design and optimization of a microstrip patch antenna for ...

In the paper 12mm by 15.6 mm rectangular patch antenna carved on FR4 substrate is presented. Both the simulated and the measured result show the operation of the antenna in the entire UWB range.

(PDF) Design and Analysis of Microstrip Patch Antenna for ...

In this paper bandwidth enhanced microstrip patch antenna has been proposed for satellite communications. The bandwidth has been increased using parasitic patches. The size of the proposed antenna is 15x8 mm². It has been observed that the antenna has a bandwidth of 4.08GHz, a return loss of 49.07 dB at the center frequency, a maximum gain of 8.25 dBi and total efficiency of more than 90%.

A NOVEL WIDEBAND MICROSTRIP PATCH ANTENNA FOR SATELLITE ...

Global Journal of Research Engineering Volume 11 Issue 2 Version 1.0 March 2011 . Type: Double Blind Peer Reviewed International Research Journal Publisher: Global Journals Inc. (USA) ISSN: 0975-5861 . Design and Analysis of Rectangular Microstrip Antenna with PBG Structure for Enhancement of Bandwidth

Design and Analysis of Rectangular Microstrip Antenna with ...

[7]. Majumder, A. (2013). Rectangular microstrip patch antenna using coaxial probe feeding technique to operate in S-band. International Journal of Engineering Trends and Technology (IJETT), 4(4), 1206-1210.

Design of A Symmetrical C Shaped Microstrip Patch Antenna ...

International Symposium on Antennas and Propagation Conference Proceedings, Kaoshiung, Taiwan, December 2-5, pp. 1 - 2. 5. Mohammadi , P , Piroutiniya , A and Rasekhmanesh , MH (2016) A novel compact feeding network for array antenna .

Miniature drone antenna design for the detection of ...

International Journal of Antennas and Propagation publishes research on the design, analysis, and applications of antennas, along with studies related to the propagation of electromagnetic waves through space, air, and other media. ... the sidelobe level is below -15 dB under beam deflection. ... enhanced impedance, axial ratio (AR), and gain ...

International Journal of Antennas and Propagation | Hindawi

International Journal of Scientific & Engineering Research Volume 5, Issue 3, March-2014 Keywords: Rectangular Microstrip Patch Antenna, Return Loss, VSWR, Bandwidth, High Frequency Structure simulator (HFSS) v 11, Wireless communication. Created Date: 4/1/2014 4:07:45 PM

Rectangular Microstrip Patch Antenna For Wireless ...

In this paper, a flexible microstrip patch antenna sensor is proposed for monitoring of the moisture content of lubricating oil. The sensor identifies liquids having different effective dielectric constants by detecting changes in the resonance frequency. The proposed antenna comprises a radiation patch, a metal ground plane, and a PDMS substrate with microchannels.

Microfluidic Flexible Substrate Integrated Microstrip ...

The antenna design is based on Cantor fractal slot, partial ground plane, and inset feed which is directly fed through the microstrip line. The proposed antenna shields the frequency band from 3.22 to 6.5 GHz with VSWR ≤ 2 within all the frequency bands.

Broadband microstrip antennas with Cantor set fractal ...

Kong, L and Xu, X (2018) A compact dual-band dual-polarized microstrip antenna array for MIMO-SAR applications. IEEE Transactions on Antennas and Propagation 66 , 2374 - 2381 . 18.

A novel dual-band dual-polarized shared-aperture antenna ...

Design and investigation of a multi-functional antenna with variable wideband/notched UWB behavior for WLAN/X-band/UWB and Ku-band applications. AEU - International Journal of Electronics and Communications, Vol. 111, Issue. , p. 152895.

A novel design of Scarecrow-shaped patch antenna for ...

Microstrip Antennas International Journal of Antennas and Propagation. ... (15) It is therefore concluded that the modal Q eig equals the Q X by [20, 21]) that in resonance it also equals the radiation Q ... International Journal of Antennas and Propagation 3 P3 (x3, y3) P1 (x x 1, y y 1) P2 P0 P0

International Journal of Antennas and Propagation

A novel planar printed log-periodic dipole array (LPDA) antenna fed by tapered microstrip line (MSL) to double sided parallel strip line (DSPSL) is proposed in this paper. The proposed antenna adopts MSL feeding approach from backside. Using this feeding technique makes the printed LPDA antenna easier to be integrated into radio frequency (RF) circuits.

A Printed LPDA Antenna Fed by a Microstrip Line to Double ...

In this article, a dual band microstrip antenna design based on characteristic mode analysis (CMA) using MTM superstrate is proposed for 5G wireless communication. ... [15] S. H. Zainud-deen, A. M. Mabrouk, ... "Metamaterial Inspired DNG Superstrate for Performance Improvement of Microstrip Patch Antenna Array", International Journal of ...

Metamaterial superstrate microstrip patch antenna for 5G ...

He has published more than 15 research papers in different national and international Journals and conference proceedings. His area of research is Fractal microstrip antenna, Smart antenna, Reconfigurable antennas, Modern Wireless communication systems etc.

Analysis of a Miniaturized Hexagonal Sierpinski Gasket ...

In this paper, a novel design of compact microstrip antenna (MA) using an embedded $\lambda/4$ resonator is presented. By utilizing the strong coupling between the $\lambda/4$ resonator and the radiation patch of MA, the resonant frequency of MA can be decreased. Besides, the $\lambda/4$ resonator is embedded in the patch, which does not enlarge the whole size of MA.

A Novel Compact Microstrip Antenna with an Embedded $\lambda/4$...

Abstract. The design procedure and physical module of a compact wideband patch antenna for Ku band application are presented in this paper. Finite element method based on 3D electromagnetic field solver has been utilized for the designing and analyzing process of proposed microstrip line fed modified -shaped electrically small patch antenna. After successful completion of the design process ...

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